

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: jlyle@netcom.com (Jim Lyle)
Subject: Re: Solid state audio for R-392
Message-ID: <199510070039.RAA20541@netcom15.netcom.com>

>
> Hi again,
>
> On the subject of rolling one's own solid state audio amp replacement for
> the R0392, I do have a suggestion:
>
> I recently built a nice audio amp for work which I think would be
> excellent for the R-392 audio output. The circuit uses a power op amp, a
> National LH0101CK. The bad news about this part is that you must order it
> from Newark or whatever commercial supplier provides National parts, and
<Snip>

I just had to answer this one, since I work for National Semiconductor
(in one of their marketing departments)!

Most National Parts are available through Digi-Key, which can respond
VERY quickly. Call Digi-Key at 1-800-344-4539 and ask for a catalog.
The aforementioned part IS listed there.

If you need data sheets or technical information on any of National's
parts, call National's Answer Desk at 1-800-272-9959.

Now in general, National is a leading manufacturer of Audio Amplifier
ICs, from the small, milliwatt range all the way through about 20 watts.
examples:

LM380 ----> .6 to 2 watts, depending on package. About \$1.50
LM383 ----> 7 Watts. About \$4.00
LM386 ----> .2 to 1 Watt, depending on package and circuit. About \$1.50
LM388 ----> 1.5 Watts. About \$2.00
LM390 ----> 1 Watt. About \$1.80

The exact choice depends on supply (or battery) voltages available,
voltage gain needed, and many other factors.

The part listed above is a 2 AMP low-distortion Op-AMP. It's not
designed specifically for audio amp applications, but would work well
there. The downside is that it's expensive... about \$24.00

Jim Lyle
jlyle@netcom.com

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: don merz <71333.144@compuserve.com>
Subject: Rider and Astatic questions
Message-ID: <951007010959_71333.144_DHB56-7@CompuServe.COM>

A couple questions:

First, did Rider invent signal tracing? I have a book with that title in the preface Rider claims to have invented signal tracing. Does this agree with the facts?

Second, does anyone know if the Astatic D-104, T-3 and D-10 mics all use the same crystal element? These three all have that 3-prong plug that fits into the old G (PTT) stand design. I was wondering if they are all the same electronically. Can anyone point me to a good article on these mics?

Thanks in advance to the finest minds in boatanchordom (quite a compliment, huh?).

73, Don

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: Michael.J.Knudsen@att.com
Subject: Re: R392
Message-ID: <9510061619.AA10542@bock.ih.att.com>

The 392 is basically an R390 reduced in size and weight by half, an incredibly beautiful mechanism enclosed in a waterproof, bombproof, kid and moving-man proof cast aluminum case.

It runs on 28 VDC, fialment AND PLATE (no dynamotor or vibrators). Operation and performance are as with the 390 or A, tho maybe not as sensitive on the higher bands -- we're still "voting" on that one.

A few good features were left out to save space (and Army \$\$\$, right) -- no CW selectivities (only 2, 4, and 8 KC, all terrific for AM and SSB), and no control of AGC speed. On the plus side you get a squelch. And a lot of table space back, even after adding a power supply.

And you cna take it to FIeld Day with two car batteries -- and not care if it gets rained on -- rubber gaskets under the digit windows and knob shafts.
73, mike k w9nrd

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: Michael.J.Knudsen@att.com
Subject: Re: Pre-Sarnoff FM B'dcast Band
Message-ID: <9510062155.AA11424@bock.ih.att.com>

OK Bobbi, good stuff. I guess freq mulitplication would get Armstrong's deviation up, tho the *phase shift* would still be the same number of degrees.

And I can see that RCA's servo-motor condenser tuner would keep the system on Fc so the audio modulator could have the full range to swing around in.

>From the two RCA monstrositites you describe, ti sounds like RCA would've been better off to pay Armstrong, stay on his good side, and let him come up with a more elegant way fo generating TV aural FM. Inducing the world's best FM designer to jump out of a window is not the best route to clean technology...

Yeayh, I think I gave as reason no. 4 or 5 the lack of backwards compatibility as one reason why HF NBFM didn't fly. Slope detection of local cordless phones on the SP600 is just barely tolerable, what with no QRM or static besides the rx's front end noise. I cna just imagine trying that on a crowded ham band in the summer storm season.

The Hallicrafters postware rx like the SX-42 didn't even bother with NBFM, just the wideband version -- tho I've heard it's a bit narrow for the modern BC standard.

BTW, some TV receivers used FM detection schemes that weren't used in FMsets, such as quadrature gating (self-excited circuit with a srot of pentagrid mixer). I wonder if these TV schemes were too low-fi for even an AM/FM table radio?
73, mike k w9nrd

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: Michael.J.Knudsen@att.com
Subject: Re: Pre-Sarnoff FM B'dcast Band
Message-ID: <9510062209.AA11453@bock.ih.att.com>

For the bandwidth, probablynuthing beats SSB for S/N.
DSB (with no carrier) gains another 3 dB S/N but at the expense of twice the BW.
And that's assuming only QRN, not other signals.

I recall reading that S/N of FM goes down with decreased deviation, so by the time you reduce the BW of an FM signal to the 3 KC of an SSB signal, you may not have much left.

You're probably right about FM being used to keep TV visual and sync buzz out of the sound. It gets bad enuf (sync buzz) with FM as it is.
Hard to believe Sarnoff would go out of his way to pick a fight with

Armstrong, but maybe there was some bad blook left over from the days when RCA held Armstrong's superhet patent.

I know that Commander Eugene MacDonal, aka Mr. Zenith, hated Sarnoff and RCA. Wouldn't be surprised if the Commander bankrooled the Major's widow's lawsuit.

In the US, longwave was taken for marine beacons and aircraft-to-tower comm (a rather poor choice for transmitting antennas on little airplanes).

120 meters might have encroached on our old Marine band.

As for 90, well, the US seems to have had a long govt tradition of reserving SW for broadcasts aimed overseas, and not domestic.

Also domestic broadcasts should be kept on low freqs that don't propagate too far. If we had BC stations all over 3000-3300, we'd probably be clobbering all those Caribbean and African countries -- and maybe they'd be hosing up ours too.

BTW, US boradcasters have been rushing into the newly opened 1630-1710 band almost as fast as teeny-bopper mall rats rushing in to buy "50% off all radio theory textbooks." 73, mike k w9nrd

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995

From: Michael.J.Knudsen@att.com

Subject: Re: Re. Sensitivity of Hallic

Message-ID: <9510061646.AA10562@bock.ih.att.com>

Probably was some alignment problem (or intrinsically poor tracking) that caused the SX-28 to be better above 27 MC than on it.

Maybe it was "crossover" misaligned so the LO was on the wrong side of the signal at the top end. Or maybe it was a Hallicrafters :-)

>From my own experiences, the first RX I saw that was any good above 15 MHz was my Knight Kit R100. It used a 6BZ6 RF into a 6U8 osc/mixer and was hot as Hades on 15, CB, and 10 -- even tho I never got it aligned quite right. A good lawher could get it listed as a "late '50s rx" but I consider it a '60s job.

I have an RME 22A (?) preselector, with two 6BA6s, that should either improve any RX or else bury its front end in noise. Cleaned it up but haven't tried it yet.

As for S-38, a funny thing about cheap radios with no RF stage -- sometimes they do BETTER above 15 MC simply cuz there's no RF stage to wimp out or mistrack. Of course the conversion noise will pile onto the signal, and let's not mention images!

Per your story, I sold the R100 in my last grad school when we had to move across town.

Bad move. Worse yet, I sold my perfect, complete (except for speaker) RAS.

However, the guy I sold it to got hooked and a year later landed his license, so it was for a good cause. And I'll bet that RAS has a nice warm home somewhere still.

73, mike k w9nrd

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: HAMRLUND@aol.com
Subject: Re: Young BA'ers
Message-ID: <951006215211_118119190@mail.aol.com>

In a message dated 95-10-06 20:21:29 EDT, you write:

>any youngster who shows an interest.

i had a father call a while back. his 12 yr. old son had found a picture of dad's station he had when he was that age. which consisted of an EFJ viking & Hammarlund HQ-110ac

well he had a paper route, and had found and bought a viking. Ricky finally found a 110ac advertised in ART, mint condition with speaker, \$225.00.

Well they negociated, and got it for \$185.00 shipped. Now keep in mind, ricky is paying

for this from his paper route. well the big day came, UPS dropped of the package.

The <mint> HQ 110ac was the filthest thing dad had ever seen. no amount of talking to the seller, got any satisfaction. (that in itself, ripping of a 12 year old boy, makes me sick. but to show his son they could restore it. ya right.

this thing needed so many parts replaced, dad was considering dumping it, but dad

figured this would not teach ricky anything..so he called me to see what all this stuff

would cost. (not dad but ricky) anyway the parts came to a bunch...

but i could not see this young man, who had been BADLY taken in the first place,

thinking everybody was this way. (a lasting impression) so i told dad, look i can't see

ricky getting a raw deal, tell ya what, have him send me \$25, just so he feels he bought and payed for it. (that did not even cover shipping) but tell ricky i want a picture of him and the unit when finished..

well time went by, dad called and kept me filled in on the progress. shure enough, in the mail one

day was a letter, with a color picture of ricky holding *his* project completed.

he had the biggest smile on his face, and dad was very grateful too...i told ricky's dad

no thanks were needed, i did it to help ricky in his hobby, & give him a learning experience, that was benifical, and realise that not everybody in

the hobby was out too
take advantage of the young newcomers to the hobby...(and i still from time
to time, get a letter from ricky and his dad.....

That, is what makes what i do, worth every effort i put into it.

robert

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: Andy Wallace <wallace@mc.com>
Subject: Small 28V ARC transmitters - VHF?
Message-ID: <9510070157.AA06669@kali>

Just got a pair of identical twins, ARC Corporation 28V aircraft
transmitters, which I believe to be VHF. One is marked T-13A,
the other is T-366A. What is the frequency range of this/these?

Small grey box, four 5763 tubes and five crystal sockets inside,
three connectors on the front plus BNCs for TO REC and TO ANT,
plus a MIC jack.

Any hints as to the age/power/freq range/xtals required would be
helpful.

Many thanks....

--Andy
wallace@mc.com

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: Andy Wallace <wallace@mc.com>
Subject: CV-591 SSB converter HELP
Message-ID: <9510070201.AA06679@kali>

Just picked up one of these and would like to try it out. No manual.
Until I get one, could someone give me the pinouts of the twelve
terminals on the back? I assume this is for 455 kHz IFs, and I
would like to attach it to an R-390A.

This is the small rackmount unit by TMC, with the U and L lights.

TNX!

--Andy
wallace@mc.com

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: Michael.J.Knudsen@att.com
Subject: Re: Re. R-392 performance...
Message-ID: <9510061752.AA10605@bock.ih.att.com>

Is it necessary to do anything with the relays?
Only if running the filaments on AC instead of DC, I'd say.
Relays seem to work off the A rather than B supply.

THere's a big sealed one in the audio chassis that seems to be always on
except in Standby, so for AC you'd have to hotwire aroudun that one.

BTW, is the antenna relay supposed to totally kill the signal when
you swithc to Calibrate? On the R390A it does. But on my 392 the antenna
signal just drops about 10 dB. Nice for zero-beating WWV but I don't thank that's
how this set was intended to operate. Or is it? THanks, mike k w9nrd

PS: Al is right about the "split" being gratis -- just feed 24-28 V filament
to pin D, and boosted plote to pin A. D is common ground, and H is audio out.

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: Mark60195@aol.com
Subject: Re: SX-38
Message-ID: <951006230417_71720422@emout06.mail.aol.com>

In a message dated 95-10-06 07:56:28 EDT, alklase@village.ios.com (Al Klase)
writes:

>Now, here's the test: Can you lift your radio easily with one
>hand? The S-38 has 5 tubes and no power transformer. An SX-28, and
>presumably an SX-38, has fifteen tubes and weighs 50 or 60 pounds.
>If you have an SX-38 it may well be the only one! Treat it
>accordingly, its priceless.

Must have been an S-38 then. Maybe wishfull thinking on my part.
Black wrinkle case, probably 5 tube, no more than 10 pounds. General
coverage with a big bandspread dial. I passed it up cause none of the
tubes lit and I figured the transformer may have been shot. Coulda sworn
there was an "X" in there. Maybe it will be there next month, now I'm
really curious. Oh well, thanks folks!

Where does one find a copy of this "Raymond Moore, Communication Receivers"
book? Sounds like I need a copy!

- Mark Lakomski
WB9PPL

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: "Dick Dillman" <ddillman@igc.apc.org>
Subject: Re: CV-591 SSB converter HELP
Message-ID: <82639.ddillman@igc.apc.org>

On Fri, 6 Oct 1995 21:03:18 -0500 (CDT),
Andy Wallace <wallace@mc.com> wrote:

>Just picked up one of these and would like to try it out. No manual.
>Until I get one, could someone give me the pinouts of the twelve
>terminals on the back? I assume this is for 455 kHz IFs, and I
>would like to attach it to an R-390A.

The rear panel connections are as follows:

Terminal strip E1

1 - 600 ohm audio
2 - 1mW 0dbm audio
3 - Common for above *
4 - 8 ohm audio, 2W high, 150mW low
5 - Common
6 - 600 ohm audio, 2W high, 150mW low
7 - Ground
8 - Sideband
9 - Ground
10 - BFO Relay
11 - Ground
12 - Bandspread

* - When no load is connected across terminal 4 & 5 or 6 & 5
or pins C & D or B & D of P4, connect jumper across terminal
1 & 3

Plug P4

A - 600 ohm low, 1 mW
B - 600 ohm 2W high, 150mW low
C - 8 ohm 2W high, 150mW low
D - Common

Okay, so much for that. Here's how I have *my* '591 hooked up to the
'390A:

IF input to J1, 8 ohm speaker connected to 4 & 5 of E1, high/low
output level switch to high.

Did you ask about V9 in another message? It's a 12AU7 and functions as a side tone generator and relay driver: "When an applied negative on the grid is sufficient to cut off the stage, the relay K3 is deenergized. This action in turn trips the sideband two step relay K2."

Best Regards,

Dick Dillman/WPE2VT
<ddillman@igc.apc.org>
San Francisco

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: dmedley@indirect.com (David Medley)
Subject: Hallicrafters FS
Message-ID: <199510070348.UAA11772@bob.indirect.com>

I have not sold the SX-25 yet so more offers are solicited.
I also have an SX-9 to sell. This is one of the earliest Super Skyriders with the silver panel and was the first with the German Silver dial and all metal tubes. This one is in good condition and works well up to about 15MHz. Above that it is just an attenuator but no doubt could be improved by more substitution of capacitors.
Serious offers only to dmedley@indirect.com

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: jproc@worldlinx.com
Subject: RE: Heath BA OP Amp
Message-ID: <Chameleon.4.01.2.951006231702.jproc@>

>
>Does anyone know what a Heath EUW-19B is??
>
Shaun,

According to my 1967 Heathkit catalogue, here is the description for the EUW-19A:

This is a self contained op amp system that is ideal for research work. It can be connected as a constant current source, a controlled potential source, a linear sweep generator, or as a servo system simulator. Additionally, subtraction, integration and differentiation problems can be programmed.

The amplifier system incorporates 4 hi-gain op amps, a high current booster amplifier and regulated +300 and -300 volt power supplies.

Let me know if you require any further details. After looking at the specs, I can only conclude that if you don't have the manual for this baby, then it can be used as a BA (literally).

Regards,

Jerry Proc VE3FAB
E-mail: jproc@worldlinx.com
Radio Restoration Volunteer
HMCS Haida, Toronto Ontario

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995

From: Henry van Cleef <vancleef@bga.com>
Subject: Re: The HQ-150's gonna get a good workout
Message-ID: <199510070529.AAA14141@zoom.bga.com>

As post@ouvaxa.cats.ohiou.edu said

>
(HQ-150)

I have one of these. Bought it about a year ago from the son of the original owner, who gave me a positive date of 1956 for it. The set is clean as a whistle, museum perfect except for a couple of chips in the cabinet paint on the back corners, and electrically 100% original except for most of the tubes.

> The chassis (1956 or 57 vintage according to the QST ads) has
> all ceramic capacitors (original) and with minor cleaning of the controls
> and replaement of one of the 6BA6 tubes, this thing is a champion performer
> as well. Between the bandwidth selections and the excellent built-in
> Q-multiplier, it can really zero in on a CW signal. Decent on SSB with the
> voltage regulated oscillator.

The local oscillator on mine is not particularly stable. The thing drifts for a long time after I turn it on, maybe an hour. I want to try another 6C4 in it, as it should be more stable than that. Also, the audio is low frequency-limited. The schematic shows a graham cracker in the audio stage, but mine is wired with discrete components.

I can get spot on with the ham band
> bandspread and the built-in 100khz marker. My question was concerning the
> maroon Q-multiplier knobs. I was not sure that those were original since
> all of the pictures were black and white and those knobs do not match the

> other knobs which are black. Glad to hear that the knobs are original. I
> have the original manual as well. Was this the last of the single
> conversion general coverage heavy Hammarlunds?

Yes, the Q-multiplier knobs are maroon. And yes, they were originally
build with ceramic disk caps everywhere. Mine had obviously been used
regularly for over thirty years, with nothing more than tube
replacement. It was worth taking the tuning apart, cleaning it all up,
and relubing it, and cleaning the front panel and so forth while at it.
The front end was way out of alignment. I did the manual-specified
procedure to bring it back, but it needs a little attention to detail
to get it to track a little better.

Yes, the "big HQ" that replaced it in '58 was double conversion.

>

> This is my first Hammarlund. (Maybe it needs a brother.)

>

--

Hank van Cleef vancleef@bga.com vancleef@tmn.com

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995

From: paul Veltman <veltman@netcom.com>

Subject: Need good e-mail for KE0T

Message-ID: <Pine.3.89.9510062225.A18111-0100000@netcom6>

Bob,

Your honeywell address came bouncing back. I have e-mail for you. Please
furnish me with a good address.

Thanks,

Paul WA6OKQ

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995

From: "Roberta J. Barmore" <rbarmore@indy.net>

Subject: Re: Solid state audio for R-392

Message-ID: <Pine.3.89.9510070135.A20394-0100000@indy1>

Hi!

I'll quickly second Jim's list of National Semi audio amps & suggested source--and put in a good word for the LM380 over the more commonly seen LM386.

The '380 has a *lot* of gain, doesn't require a fancy heat-sink (a square inch of copper foil on each side will do, or simple hombrew "wings" soldered to the proper pins), and with the recommended "snubber" RC across the output, will drive most any ol' load. It's sort of a solid-state 6F6--simple, reliable, and handy. At typical levels for ham use, the distortion seems to be considerably less than a '386, too.

While I'druther use thermionic devices, this is a handy family of devices, well-suited to getting a BA to talk to modern transducers. The art of repairing good magnetic headphones is fading fast, alas.

73,
--Bobbi

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: shaun.merrigan@freddy.com (SHAUN MERRIGAN)
Subject: Re: Heath BA OP Amp
Message-ID: <8B28553.000402498D.uuout@freddy.com>

On 10/06/95, NICK ENGLAND spoke about Re: Heath BA OP Amp; I say:

NE>Sounds like perhaps part of the Heath analog computer - or maybe NE>something like the chart recorder driver electronics. Heath made lots NE>of instrumentation back in those days.

Nick:

You may be right, as these units were part of a chemistry dept surplus. They are completely self-contained units, perhaps part of a high gain amp and chart recorder system. Each unit has 4 OP Amps with balance controls for each, 300v outputs and some terminals I cannot identify.

Anybody have a manual for one of these???

Shaun

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: shaun.merrigan@freddy.com (SHAUN MERRIGAN)
Subject: How's the performance of
Message-ID: <8B2855B.000402498E.uuout@freddy.com>

On 10/06/95, JOHN BERENYI spoke about How's the performance of; I say:

JB>I've decided to purchase an HQ 180 with clock. Its supposed to be
JB>mint with matching speaker. With no experience on it, I was
JB>wondering what others out there think of its performance. I
JB>currently own a Drake R7A, SX100,R390A, R390,etc. Any input would be
JB>appreciated.

You may be disappointed with the HQ-180 in comparison with the R390A. I used 'em both, side by side for several months. Sold the HQ-180, kept the R390A. The 180 is a good "consumer grade" rx, don't get me wrong. But it is not in the same league design-wise, stability-wise or quality wise as the R390A.

Having said that, the '180 does have things that the R390A does not, like a nice notch filter, and a product detector. I know people who swear by the '180 for BCB dx work.

But since you asked MY opinion, I am giving it.

Now, as they say at the Oilympics: "Let the flames begin" . . :)

Shaun P. Merrigan
merrigan@nyquist.ee.ualberta.ca
shaun.merrigan@freddy.com
3rd Year EE University of Alberta

~ CMPQwk 1.42 856 ~Why is "abbreviation" such a long word?

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: MEC <danmec@inet.uni-c.dk>
Subject: Collins Mechanical Filter catalogue
Message-ID: <Pine.3.89.9510071044.A14427-0100000@inet.uni-c.dk>

I have a 16 page catalogue with specs, dimewnsions etc.
No date code but i guess it is from the 1960's.

Also a single sheet " CDS-437 ,F455y21 datasheet for part no
526 9337 00. No date code.

Any offers ?

73 Rag 0Z8R0

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: Richard Brisson <rbrisson@CSE.DND.CA>
Subject: Re: W.J. Ford's
Message-ID: <199510071225.IAA01353@manitou.cse.dnd.ca>

The details wrt Ford' are:

W.J. Ford Surplus Enterprises,
P.O. Box 606,
21 Market Street,
Smiths Falls, Ontario CANADA
K7A 4T6

Open on Saturdays 9:00 am to 5:00 p.m.
Tel. 613-283-5195 (business)

Mr. Ford is a very knowledgeable and nice individual. The interesting thing about the warehouse is that its access is a bit peculiar. The entrance door can be best described somewhat like a service/exit door and you have to press a buzzer next to the door to be allowed in.

Richard.

P.S. I am being encouraged to get licensed to operate one of a few BA's which I do have. I have been taking the "pulse" of this group for the last two weeks or so and I must admit I like the technical details and more importantly the very civilized tone of its subscribers (which I expected).

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: mirage!pamars@uhura.neoucom.EDU (P.A.Marshall)
Subject: Re: Re. R-392 performance...
Message-ID: <9510071133.AA24849@mirage>

Michael.J.Knudsen@att.com writes:

>
> Is it necessary to do anything with the relays?
> Only if running the filaments on AC instead of DC, I'd say.

> Relays seem to work off the A rather than B supply.
>
Exactly right! If you have 24vdc, no mods what so ever have to be made. But if you are building a PS you may find it easier to go the AC route on the A supply as 24-25 volt transformers are rather common. More over, if you do not split the supplies you will need good supply filtering if you want realy hum-free operation.

Al Marshall "Real Radios Glow in the Dark" almarshall@acm.org

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: Thomas Bryan <tbryan@mailstorm.dot.gov>
Subject: W.J. Ford Surplus URL
Message-ID: <199510071430.KAA27038@mailstorm.dot.gov>

Hello All,

W.J. Ford is on the WWW at <http://infoweb.magi.com/~testequi>

I have no connection with W.J. Ford and have never done any business with them. Their web site is interesting to BA collectors.

Tom Bryan
tbryan@mailstorm.dot.gov

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: Steven Wilson <randyw@crl.com>
Subject: Looking for RTTY experimenters
Message-ID: <Pine.SUN.3.91.951007073957.15454A-100000@crl5.crl.com>

I have swaped e-mail with a few of the RTTY oprs here on the list and would like to know how many are still out there experimenting with RTTY. The winter operating season is almost upon us and with the low sun spot activity this should be a good time to play with the TU's on 80 meters.

I have electronic and mechanical devices with a modern (?) TU the Dovetron and a ST-6. I use Model 28's, but also have a computer interface. Building up a modern DTC-600 (from the 80's) for two-tone plus microprocessor interface. I also have a KAM but do not use it on RTTY.

Experimenting with RTTY TU circuits died it seems with the growth of packet. However, anyone who has ever watched the fading on a cross pattern scope (CRT) knows there is a lot of experimenting left to do.

Anyone want to swap ideas and circuits ? e-mail via randyw@crl.com
I am working on sampling techniques involving microprocessors at the output
of the detector circuit. I would like to try some DSP stuff in front of
the TU, but technically that is out of my league so need a lot of input
in that regards. 80 meters (around 3610 khz) is quite in this area and
sure needs some experimenters.

When in the shack I like to run the model 28's. Computers save a lot of
paper for monitoring of the channel. So both are used.

If you have never tried RTTY maybe now is the time. A good TU goes for
under \$50 (ST-6) and Model 28 are often free just for asking on the local
swap net. Local office supply can provide paper usually about \$6.50 roll
in the St Louis area. Should be about \$3/roll. If you get a chance to
get a old homebrew tube TU grab it. W2JAV or Hoff design works great.
The mainliner by Hoff is still state of the art. Any SSB transmitter
will work and it is simple to FSK a old xtal tube rig....

Send me some e-mail if you operate on 80/40 or 20 and want to experiment.

de stan ak0b
e-mail via randyw@crl.com

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: don merz <71333.144@compuserve.com>
Subject: TV & Radio Literature FS
Message-ID: <951007161743_71333.144_DHB27-1@CompuServe.COM>

Vintage Literature For Sale

CONTACT: Don Merz, N3RHT: 47 Hazel Drive, Pittsburgh, PA 15228.
412-234-8819 (weekdays, EST or leave a message anytime).
71333.144@compuserve.com

TELEVISION

Booklet: "Practical Television by RCA," 1944, excellent: \$29 postage paid

WNBT TV Schedule Postcards, from August/September, 1945
"NBC Television Channel No. 1" Excellent condition. A really neat piece
of history. \$19 each postage-paid. 5 left to sell.

RADIO

Radio Magazine "Monthly Data Sheets," 3 1930 issues with binder.
\$11 postage-paid
Radio News Amateur's Handbook "by the most eminent Radio Experts."
Volume 1, #1, 1923. Covers are poor and binding edge falling apart.
Might be restorable. The rest of it is in excellent condition. \$14

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: bgraham@tecnet1.jcte.jcs.mil
Subject: WTB: Heath IO-17 scope
Message-ID: <199510071745.MAA05421@uro.theporch.com>

I'm in the market for an IO-17 3" 5mhz heath scope.

Bill
N5LMX/DA1WG

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: haynes@cats.ucsc.edu (Jim Haynes)
Subject: Re: Looking for RTTY experimenters
Message-ID: <199510071758.KAA26025@hobbes.UCSC.EDU>

I don't do much experimenting anymore, but I do operate both old a modern gear. The appliance station is a TS-940S with PK-232 and HAL modem for Clover and FSK. The boatanchor station is a couple of Model 28s, TMC kilowatt, R-390A or FRR-59, DTC-600 (or something like that, I don't remember) or TMC tube-based TU which is not very good.

And maybe it's too early to mention but I'll mention it anyway: Feb 20 is Green Key Night (and day) when we get on the air using mechanical teleprinters and tube gear if we can, use 850 cycle shift if we can, and wallow in nostalgia. Feb 20 is the anniversary of the advent of FSK on the HF bands.

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: Neal McEwen <nmcewen@metronet.com>
Subject: RTTY remembered
Message-ID: <199510071808.AA04658@metronet.com>

Stan's post about RTTY experimentation jogged my memory. Just over 30 years ago, I built a W2JAV convertor with a 3BP1 scope for tuning. It worked like a champ. I got most all of the circuitry from the old CQ magazine RTTY handbook; I forgot the author, but 30+ years ago it was foremost on my brain. I had a model 15 that I got from the local phone company. They sold them to

hams for \$25 as they were pulled from service. Someone gave me about a 100 pound box of paper rolls and I was on my way.

I had the W2JAV convertor behind my NC-300 (what a horse), and I somehow figured out how to FSK my ART-13 (another horse, especially my homegrown power supply). Seems to me there was a 837 oscillator and I did something to the cathode to get it to shift 850 cycles (yes, it was cycles back then).

I later sold the convertor to a friend who sold it to a friend and I found it at a hamfest 10 years later and rescued it. Took it home and it still worked great. Sad to say, I sold it again. This time I sold the Model 15 too. Seems like some one wanted the 15 to start playing with computers !!!!! Look where we are now !!!!

Somewhere along the way, I helped a friend build a poor mans TU. It had three tubes and a polar relay I think. Was it called the "Twin Cities TU"? Does anyone remember ? Well, we never could get it to work.

Speaking of polar relays for RTTY, does anyone remember Crying Charlie Wilson and his junk yard on Industrial Boulevard in Dallas? He had tons, not exaggerating at all, of RTTY parts and such. I filled a paper grocery sack one day with W.E. polar relays. I think they were called 255s. And there was a low profile model with the same function. Anyway, Crying Charlie would keep the stuff for a few weeks then melt it down for the scrap metal value. I did not get by there often enough to rescue treasures. Of course 30 years ago, I did not know that they would be treasures some day. I heard that about 10 years ago he was shut down by the EPA. Probably the heavy metals and maybe the PCBs in the oil filled caps.

RTTY, another chapter in my ham past. Thanks for the memories Stan.
I had almost forgotten.

--

73 de K5RW - Neal McEwen - Richardson, TX (Dallas)
***** I collect old telegraph and wireless telegraph keys *****
HomeNet - nmcewen@metronet.com - OS/2 tcp/ip SLIP
HomePage - http://fohnix.metronet.com/~nmcewen/techno_weenies.html

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: FRANCIS4@AppleLink.Apple.COM (Francis, Dexter)
Subject: Pocket Guide to Collins (:-)
Message-ID: <813091999.5210803@AppleLink.Apple.COM>

I just wanted to add my endorsement to the others concerning Jay Miller's "The Pocket Guide to Collins Amateur Radio Equipment". My copy arrived yesterday and it's "HP" quality all the way. The photos are excellent, the text is very readable and the technical material is pertinent. It's just larger than a

checkbook, so it does fit in your pocket. This is probably a must have for anyone who isn't familiar with Collins gear and is combing fleas looking for the right one. (In fact, this book may be responsible for me eventually breaking down and buying a 51S-1.)

Hopefully this edition will sell out real soon so Jay can be motivated to do another one on Hallicrafters, and maybe even get hooked up with Robert Fowle and do one on Hammarlund.

-df

From boatanchors@theporch.com Sat Oct 7 16:12:46 1995
From: HAMRLUND@aol.com
Subject: tektronix parts fs
Message-ID: <951007155114_71854453@emout06.mail.aol.com>

just got another load of stuff in. and in it was a bag labled tektronix # 120-0761-00

the items listed below are new in they're packages.

inside were:

1 can cap, 6000 uf - 15wvdc # 290-0510-00
3 # 151-0150-00
1 # 155-0042-03 ic
3 motorola # mp2061-2
1 # 151-0342-00
1 # 151-1049-00
1 # 151-0005-00

so if any of you tek people out there, know what this stuff is, and need it...

shoot me an offer.....please figure in shipping

thanks
robert